# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.09/KRIDL/CEMENT/2014-15

Date: 04.08.2014

## TEST REPORT

| | | |
|---|---|---|
| CLIENT | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| AGENCY | : | **Technical Manager,** KRIDL, Bangalore. |
| NAME OF THE WORK | : | Repairs of Reading Room at BEL 6th Block in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| REFERENCE | : | AEE/BBMP/VSD/PR/192/2014-15 Dated: 01.08.2014 |
| SAMPLE ID | : | Cement |
| SAMPLES SUPPLIED BY | : | AGENCY |

The results of the tests conducted on the cement sample are as follows:

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 8112-1989 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part -5) | 155 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) | 490 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part 3) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part -4) | 26.50 % | - |

Civil-Tech Consultants & Engineers Bangalore

Note:

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Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No.: CTCE/BBMP/W.No.09/KRIDL/SAND/2014-15 : 04.08.2014

## TEST REPORT ON FINE AGGREGATES (SAND)
## IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Repairs of Reading Room at BEL 6th Block in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/192/2014-15 Dated: 01.08.2014

Date of Testing : 04.08.2014

Material : Sand

Total Wt. of Aggregates in gms 2000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 98 | 4.90 | 4.90 | 95.1 | 90-100 |
| 2.36 | 202 | 10.10 | 15.00 | 85.0 | 75-100 |
| 1.18 | 415 | 20.75 | 35.75 | 64.3 | 55-90 |
| 600 Micron | 522 | 26.10 | 61.85 | 38.2 | 35-59 |
| 300 Micron | 496 | 24.80 | 86.65 | 13.4 | 8-30 |
| 150 Micron | 205 | 10.25 | 96.90 | 3.1 | |

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**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No.: CTCE/BBMP/W.No.09/KRIDL/AGG/2014-15 : 04.08.2014

## TEST REPORT ON COARSE AGGREGATES
## IS 383-1970 (RA- 2002)

**Client** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

**Agency** : **Technical Manager,** KRIDL, Bangalore.

**Name of Work** : Repairs of Reading Room at BEL 6th Block in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Reference** : AEE/BBMP/VSD/PR/192/2014-15 Dated: 01.08.2014

Date of Testing : 04.08.2014

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Tabel - 1

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 40 | 0 | 0 | 0 | 100 | 100 |
| 20 | 199 | 3.98 | 4.0 | 96.02 | 95-100 |
| 10 | 3251 | 65.02 | 69.0 | 31.00 | 25-55 |
| 4.75 | 1452 | 29.04 | 98.0 | 1.96 | |

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Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No.: CTCE/BBMP/W.No.09/KRIDL/AGG/2014-15 : 04.08.2014

## TEST REPORT ON COARSE AGGREGATES
### IS 383-1970 (RA- 2002)

**Client** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

**Agency** : **Technical Manager,** KRIDL, Bangalore.

**Name of Work** : Repairs of Reading Room at BEL 6th Block in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Reference** : AEE/BBMP/VSD/PR/192/2014-15 Dated: 01.08.2014

Date of Testing : 04.08.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25800**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 1020 | 3.95 | 3.95 | 96.05 | 95-100 |
| 20 | 16652 | 64.54 | 68.50 | 31.50 | 30-70 |
| 10 | 5236 | 20.29 | 88.79 | 11.21 | 10-35 |
| 4.75 | 2541 | 9.85 | 98.64 | 1.36 | 0-5 |

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Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No.: CTCE/BBMP/W.No.09/KRIDL/CC Blocks/2014-15 06.08.2014

## TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the Work : Repairs of Reading Room at BEL 6th Block in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Refernce : AEE/BBMP/VSD/PR/192/2014-15 Dated: 01.08.2014

Size of Block : 400 mm x 200 mm x 200 mm

Cross Sectional Area : 80000 $mm^2$

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 03

| Sl.No. | Date of Sampling | Date of testing | Failure load (KN) | Compressive strength | Minimum Compressive Strength of Individual Units |
|---|---|---|---|---|---|
| | | | kN | $N/mm^2$ | $N/mm^2$ |
| 1 | 04.08.2014 | 06.08.2014 | 261.1 | 3.26 | |
| 2 | 04.08.2014 | 06.08.2014 | 262.2 | 3.28 | 3.2 |
| 3 | 04.08.2014 | 06.08.2014 | 263.3 | 3.29 | |

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